Amplitudes 2013

http://amplitudes2013.mpp.mpg.de

Organizing Committee

Niklas Beisert :: *ETH, Zurich*
Rutger Boels :: *Univesitat Hamburg*
Ruth Britto :: *CEA, Saclay*
Vittorio Del Duca :: *INFN, Frascati*
Johannes Henn :: *IAS, Princeton*
Pierpaolo Mastrolia :: *MPP Munchen & Padova Univ.*
Marcus Spradlin :: *Brown University, Providence*
Stephan Stieberger :: *MPP Munchen*

Secretary
Rosita Jurgeleit :: *MPP Munchen*

April 28 - May 3, 2013   Ringberg Castle, Tegernsee, Germany

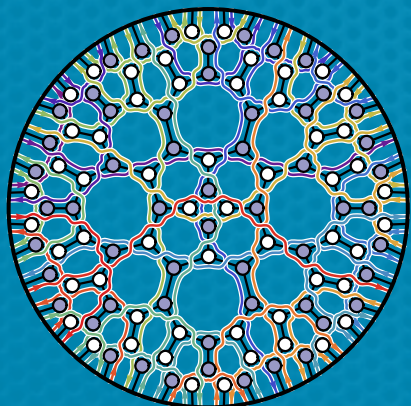Max-Planck-Institut für Physik
(Werner-Heisenberg-Institut)

Alexander von Humboldt
Stiftung/Foundation
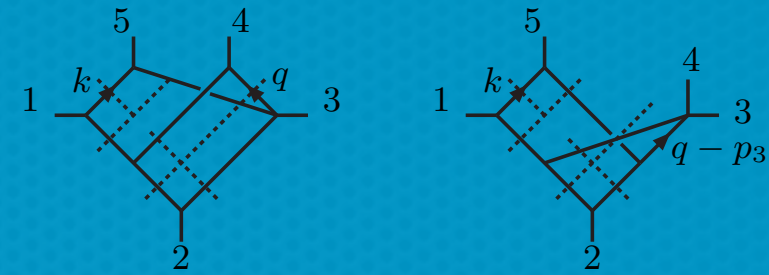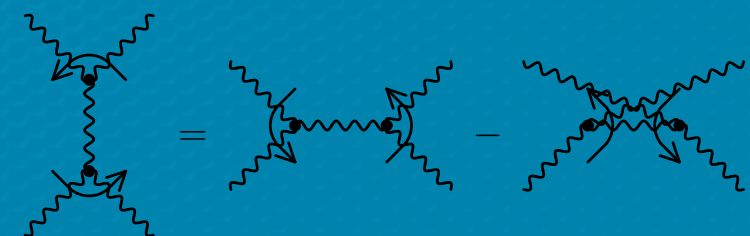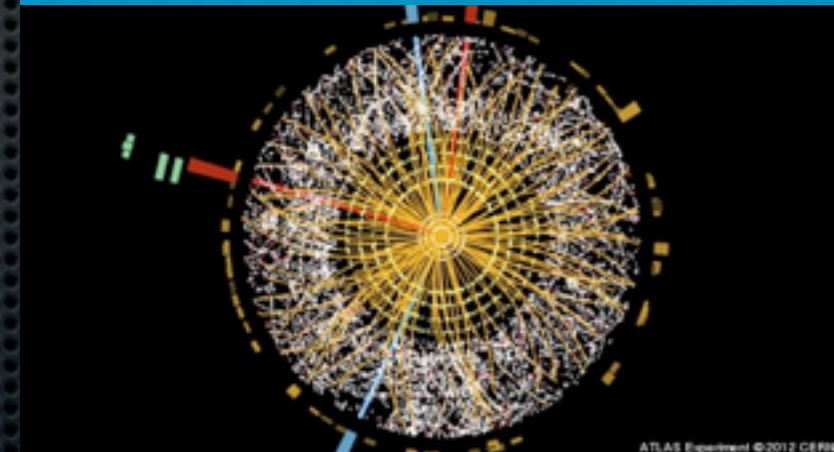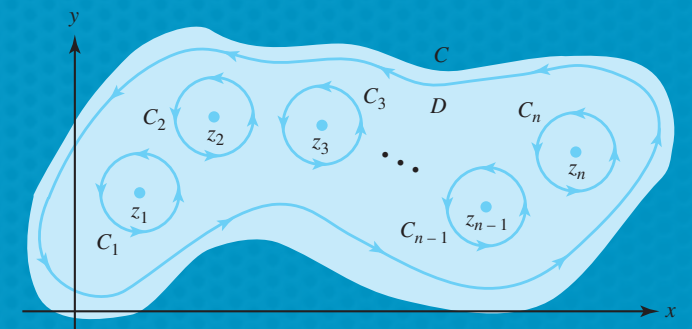
MAX-PLANCK-GESELLSCHAFT

Goal

- The analytic study of scattering amplitudes has given rise to an active interaction between high energy physics, mathematics and string theory. The purpose of the workshop is to bring together leading experts working on novel methods for scattering amplitudes in gauge and gravity theories, reaching from formal developments to phenomenological applications. The topics to be discussed include, but are not limited to:

- Integrals and integrands of perturbative quantum field theories
- Scattering amplitudes in (super)gravity and their UV behaviour
- Gauge/gravity dualities, AdS/CFT integrability,
  Wilson loops and strong coupling results
- String amplitudes and their implications from/to field-theory
- Mathematical structure of scattering amplitiudes
- Further analytic S-matrix inspired developments

$$\sum_{n=0}^{N-1} \frac{e^{2\pi i \frac{k}{N} n}}{\sqrt{N}} \frac{e^{-2\pi i \frac{k'}{N} n}}{\sqrt{N}} = \delta_{kk'}$$

$$\zeta(s) := \sum_{n=1}^{\infty} \frac{1}{n^s} = \prod_{p} (1 - p^{-s})^{-1}$$

Ringberg Castle Tegernsee
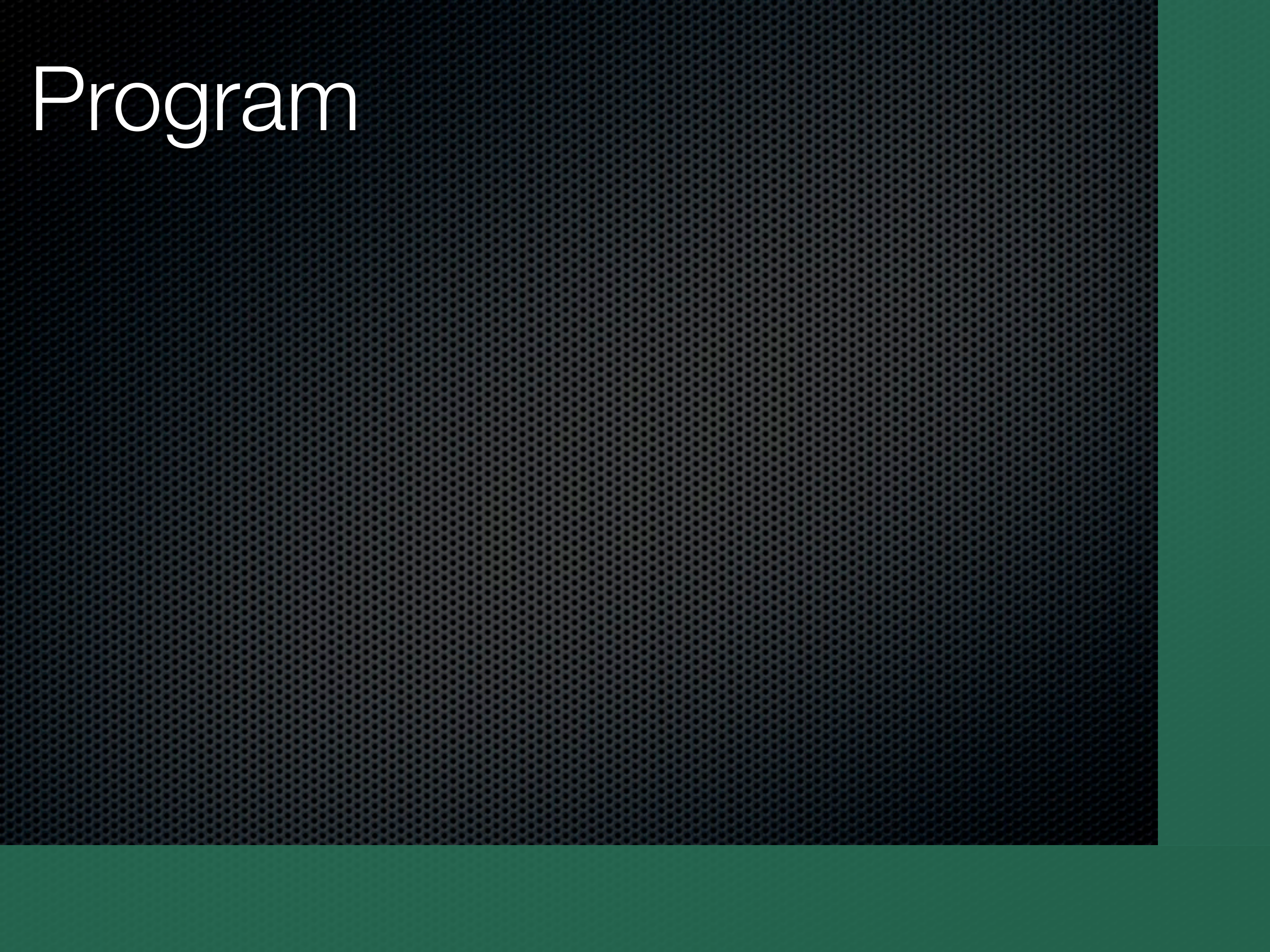
- be inspired

Sponsors

Program

Program

Time	Monday April 29	Tuesday April 30	Wednesday May 1	Thursday May 2	Friday May 3
Chair	*Mastrolia*	*Stieberger*	*Lüst*	*Beisert*	*Henn*
9:30-10:15	Pittau	Volovich	Trnka	Taylor	Brandhuber
10:15-11:00	Badger	Gangl	Skinner	Paulos	Caron-Huot
11:00-11:30	*Coffee*	*Coffee*	*Coffee*	*Coffee*	*Coffee*
11:30-12:15	Feng	Duhr	Plefka	Sever	Korchemsky
12:15-14:30	*Lunch*	*Lunch*	*Lunch*	*Lunch*	*Lunch*
Chair	*Britto*	*Boels*	[Excursion 12:15](#) [Free Afternoon](#)	*Del Duca*	
14:30-15:15	Carrasco	Broedel		Mirabella	
15:15-16:00	Johansson	Weinzierl		Luisoni	
16:00-17:00	*Long Coffee*	*Long Coffee*		*Long Coffee*	
17:00-17:45	Huber	Schomerus		Kosower	
17:45-18:30	*Free*	*Free*		*Free*	
18:30-20:00	*Dinner*	*Dinner*	19:00 Conference Dinner	*Dinner*	
20:00-21:00	Hollik			Dixon	